

AMENDMENTS TO THE CLAIMS:

The listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A light emitting device comprising an LED and ~~one or more~~ at least one phosphor material[[s]], wherein ~~for each~~ a first phosphor material with a decay time of less than about 3 ms is positioned close to the LED and a second phosphor material with a relatively slower decay time is positioned relatively further from the LED, and wherein the product of (incident LED flux) x (excitation cross-section of the phosphor) x (phosphor material decay time) is less than 0.3.

2. (Original) The device of claim 1, wherein the LED is comprised of a semiconductor material.

3. (Original) The device of claim 1, wherein the LED emits light between 350 and 490 nm.

4. (Original) The device of claim 1, wherein the product is less than 0. 1.

5. (Original) The device of claim 1, wherein the phosphor material provides Eu²⁺-Mn²⁺ energy transfer.

6. (Original) The device of claim 1, wherein said phosphor material includes at least one of Eu³⁺, Tb³⁺, Mn⁴⁺, Pr³⁺, Eu²⁺, or Ce³⁺.

7. (Currently Amended) The device of claim 6, ~~including a~~ wherein the first second phosphor material is dispersed farther from the LED chip than the phosphor of claim 6 and wherein said ~~first~~ said second phosphor material has a slower decay time than the phosphor of claim 6.

8. (Cancelled)

9. (Original) The device of claim 1, wherein said phosphor material is positioned remote to the LED.

10. (Cancelled)

11. (Currently Amended) The device of claim 1 having three or more phosphor layers.

12. (Original) The device of claim 11, wherein each phosphor layer in a direction outward from the LED has a longer decay time.

13. (Currently Amended) The device of claim 1 wherein said phosphor layers are comprised of one or more phosphor.

14. (Original) The device of claim 1 including a phosphor with a decay time less than about 1 ms and positioned relatively closer to the LED and a phosphor positioned farther away from the LED and having a decay time of greater than about 3 ms.

15. (Original) The device of claim 8, wherein Eu^{2+} - Mn^{2+} phosphors are used in the layers farther from the LED.

16. (Currently Amended) A method for producing a phosphor conversion LED lamp, the method comprising the steps of providing an LED chip and subsequently depositing ~~one or more~~ at least one phosphor material over the LED chip, wherein a first phosphor material with a decay time of less than about 3 ms is positioned close to the LED and a second phosphor material with a relatively slower decay time is positioned relatively further from the LED, and wherein the phosphor materials are selected and deposited such that for each phosphor material, the product of (incident LED flux) x (excitation cross-section of the phosphor) x (phosphor material decay time) is less than 0.3.